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THE UNITED STATES PATENT AND TRADEMARK OFFICE

AN 12 2006 Applicants

FELIX KOLLMER and PETER HOERSTER

Erial No.

: 10/568,832

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Filed

: February 17, 2006

For

MASS SPECTROMETER AND LIQUID-METAL ION

SOURCE FOR A MASS SPECTROMETER OF THIS

TYPE

Customer No. :

010037

May 9, 2006

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

In accordance with 37 CFR §1.56 and §1.97(b), the applicants wish to call the attention of the Examiner to the references listed on the attached Form PTO-1449. Copies of these references are submitted herewith.

U.S. Patent No. 6,002,128

Liquid Metal Gold Cluster Ion Gun for Improved Molecular Spectroscopy and Imaging, published 2002

The aforementioned references were cited in the "Background of the Invention" section of the present application. Accordingly, no further discussion is believed to be necessary.

U.S. Patent No. 4,686,414

"Cluster Formation Under Bombardment with Polyatomic Projectiles", R. Heinrich, A. Wucher, Elsevier Science B.V., 2000, pp. 720-726.

"Cluster Impacts at keV and MeV Energies: Secondary
Emission Phenomena", Yvon Le Beyec, Elsevier Science B.V.,
1998, pp. 101-117.

Study of Bin^{P+} Ions Formed In Liquid-Metal Ion Sources,
Physical Review B, XP-002366516, Vol. 35, No. 11, 15 April
1987, pp. 5509-5513.

"Spike Effects in Heavy-Ion Sputtering of Ag, Au and Pt Thin Films", S.S. Johar and D.A. Thompson, Surface Science XP-002366490 (1979) 319-330.

The aforementioned references were cited in the International Search Report of July 1, 2004 of the corresponding International Application No.

PCT/EP2004/007154. A copy of this Report is also enclosed.

Applicant respectfully requests that this prior art be considered during the examination of this application.

No action has issued in the above-identified application therefore, it is respectfully submitted that no fee is due at this time under 37 CFR §1.97(b).

Respectfully submitted,

Ву

Karl F. Milde,

Reg.) No. 24,822

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I hereby certify that this correspondence is being deposited with the United States Postal Services as first class mail in an envelope addressed to: MAIL STOP PCT, Commissioner for Patents, Alexandria, VA 22313-1450 ON

MAY 9, 2006 MILDE & HOFFBERG, leaun

Date_ MAY 9, 2006

PTO/SB/08A (08-03)

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Sheet

Complete if Known			
Application Number	10/568,832		
Filing Date	FEBRUARY 17, 2006		
First Named Inventor	FELIX KOLLMER		
Art Unit			
Examiner Name			
Attorney Docket Number	HH 307-KFM		

U. S. PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		^{US-} 6,002,128	12-14-1999	HILL ET AL.			
	<u> </u>	^{US-} 4,686,414	08-11-1987	McKENNA ET AL.			
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FOREIGN PATENT DOCUMENTS						
Examiner Cite Initials* No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Τ	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)

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Substitute for form 1449/PTO				Complete if Known		
000000		Application Number	10/568,832			
	ORMATION			Filing Date	FEBRUARY 17, 2006	
STATEMENT BY APPLICANT		First Named Inventor	FELIX KOLLMER			
(Use as many sheets as necessary)		Art Unit				
	(Use as many sine	1013 03 11		Examiner Name		
Sheet	2	of	2	Attorney Docket Number	HH 307-KFM	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		Liquid Metal Gold Cluster Ion Gun for Improved Molecular Spectroscopy and Imaging, published 2002. ION-TOF GmbH, MUENSTER GERMANY	
		Cluster Formation Under Bombardment with Polyatomic Projectiles, R. Heinrich, A. Wucher, Elsevier Science B.V., 2000, pp. 720-726	
		Cluster Impacts at keV and MeV Energies: Secondary Emission Phenomena, Yvon Le Beyec, Elsevier Science B.V., 1998, pp. 101-117	
		Study of BinP+ Ions Formed In Liquid-Metal Ion Sources, Physical Review B, XP-002366516, Vol. 35, No. 11, 15 April 1987, pp. 5509-5513.	
		Spike Effects in Heavy-Ion Sputtering of Ag, Au and Pt Thin Films", S.S. Johar and D.A. Thompson, Surface Science XP-002366490 (1979) 319-330	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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